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TITLE: CARBON FIBER STRAND  
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INVENTOR-INFORMATION:

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ABSTRACT:

PROBLEM TO BE SOLVED: To provide a carbon fiber strand capable of producing a carbon fiber-reinforced resin composite material having excellent interlaminar shear strength.

SOLUTION: This carbon fiber strand is formed by impregnating a carbon fiber with a sizing agent composition, wherein the sizing agent composition has such dynamic viscoelastic characteristics that a product of  $\alpha \tan \beta \tan \delta$ ; value of an  $\alpha$ ; relaxation peak; and  $\beta \tan \delta$ ; value of a  $\beta$ ; relaxation peak) of 0.07-0.2, when

a composition for evaluation given by adding 30 pts.wt. of a prescribed curing agent to 100 pts.wt. of the sizing agent composition containing two or more kinds of sizing agents comprising epoxy resins is heat-treated at 130&deg;C for 2 hr to form a cured material for the evaluation and then the cured material is subjected to dynamic viscoelastic measurement. An amount of the sizing agent composition for impregnating the carbon fiber is preferably 0.3-5.0 wt%.

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